Ver 1.0 2013/06

Power Supply User's Manual

G750M/650M/550M/450M

1. Model Descriptions

RS-450-AMAA-B1: 450W Active PFC Power Supply
RS-550-AMAA-B1: 550W Active PFC Power Supply
RS-650-AMAA-B1: 650W Active PFC Power Supply
RS-750-AMAA-B1: 750W Active PFC Power Supply

2. Specifications

- Type: Intel ATX 12V V2.31
- Input Voltage: 90~264V
- Input Frequency : 47Hz ~ 63Hz
- Fan:Super Silent 120mm Fan
- Power Good Signal: 100 ~ 500ms
- Hold Up Time: > 16ms
- Efficency:85% Typically
- MTBF: >100,000Hours
- Protection: OCP / OPP / OVP / OTP / SCP
- Dimension: 150 × 140 × 86mm (5.9 × 5.5 × 3.4 in)
- Operation Temperature: 0~40℃(Nominal Input Voltage)
- Regulatory: CE / TUV / FCC / UL / EAC / CCC / BSMI / RCM / KCC

RS-450-AMAA-B1

AC Input	100-240V~ 8-4A 60-50Hz				
DC Output	3.3V	5V	+12V	-12V	$+5V_{Sb}$
	20A	20A	34A	0.3A	2.5A
Total Power	100W		408W	3.6W	12.5W
	450W				

RS-550-AMAA-B1

AC Input	100-240V~ 8-4A 60-50Hz				
DC Output	3.3V	5V	+12V	-12V	$+5V_{Sb}$
	20A	20A	42A	0.3A	2.5A
Total Power	100W		504W	3.6W	12.5W
	550W				

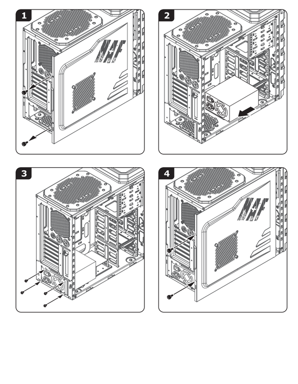
RS-650-AMAA-B1

AC Input	100-240V~ 10-5A 60-50Hz				
DC Output	3.3V	5V	+12V	-12V	$+5V_{Sb}$
	22A	22A	52A	0.3A	2.5A
Total Power	120W		624W	3.6W	12.5W
	650W				

RS-750-AMAA-B1

AC Input	100-240V~ 12-6A 60-50Hz				
DC Output	3.3V	5V	+12V	-12V	$+5V_{Sb}$
	22A	22A	62A	0.3A	2.5A
Total Power	120W		744W	3.6W	12.5W
	750W				

3. Installation



4. Connector Descriptions

4.1 Motherboard 20+4 Pin Connector(P1)

Pin1 Pin13

Pin	Description	Pin	Description
1	+3.3V	13	+3.3V / $+3.3V_s$
2	+3.3V	14	-12V
3	COM	15	COM
4	+5V	16	PS-ON
5	COM	17	COM
6	+5V	18	COM
7	COM	19	COM
8	P.G.	20	-----
9	$+5V_{sb}$	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	COM

4.2 CPU 4+4Pin

Pin1 Pin3

Pin	Description
1	COM
2	COM
3	+12V
4	+12V

4.3 PCI-e 6+2Pin Connector

Pin1 Pin5

Pin	Description	Pin	Description
1	+12V	5	COM
2	+12V	6	COM
3	+12V	7	COM
4	COM	8	COM

4.4 S-ATA Connector

Pin	Description
1	+3.3V
2	COM
3	+5V
4	COM
5	+12V

4.5 Peripheral 4-Pin Connector

Pin	Description
1	+12V
2	COM
3	COM
4	+5V

4.6 Floppy Connector

Pin	Description
1	+12V
2	COM
3	COM
4	+5V

5. WEEE Notice

English

Disposal of Waste Equipment by Users in Private Households in the European Union.
This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Français

Evacuation des équipements usagés par les utilisateurs dans les foyers privés au sein de l'Union européenne.
La présence de ce symbole sur le produit ou sur son emballage indique que vous ne pouvez pas vous débarasser de ce produit de la même façon que vos déchets courants. Au contraire, vous êtes responsable de l'évacuation de vos équipements usagés et à cet effet, vous êtes tenu de les remettre à un point de collecte agréé pour le recyclage des équipements électriques et électroniques usagés. Le tri, l'évacuation et le recyclage séparés de vos équipements usagés permettent de préserver les ressources naturelles et de s'assurer que ces équipements sont recyclés dans le respect de la santé humaine et de l'environnement. Pour plus d'informations sur les lieux de collecte des équipements usagés, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

Deutsch

Entsorgung von Elektrogeräten durch Benutzer in privaten Haushalten in der EU.
Dieses Symbol auf dem Produkt oder dessen Verpackung gibt an, dass das Produkt nicht zusammen mit dem Restmüll entsorgt werden darf. Es obliegt daher Ihrer Verantwortung, das Gerät an einer entsprechenden Stelle für die Entsorgung oder Wiederverwertung von Elektrogeräten aller Art abzugeben (z.B. ein Wertstoffhof). Die separate Sammlung und das Recyceln Ihrer alten Elektrogeräte zum Zeitpunkt ihrer Entsorgung trägt zum Schutz der Umwelt bei und gewährleistet, dass sie auf eine Art und Weise recycelt werden, die keine Gefährdung für die Gesundheit des Menschen und der Umwelt darstellt. Weitere Informationen darüber, wo Sie alte Elektrogeräte zum Recyceln abgeben können, erhalten Sie bei den örtlichen Behörden, Wertstoffhöfen oder dort, wo Sie das Gerät erworben haben.

Italiano

Smaltimento di apparecchiature da rottamare da parte di privati nell'Unione Europea.
Questo simbolo che appare sul prodotto o sulla confezione indica che il prodotto non deve essere smaltito assieme agli altri rifiuti domestici. Gli utenti devono provvedere allo smaltimento delle apparecchiature da rottamare portandole al luogo di raccolta indicato per il riciclaggio delle apparecchiature elettriche ed elettroniche. La raccolta e il riciclaggio separati delle apparecchiature da rottamare in fase di smaltimento favoriscono la conservazione delle risorse naturali e garantiscono che tali apparecchiature vengano rottamate nel rispetto dell'ambiente e della tutela della salute. Per ulteriori informazioni sui punti di raccolta delle apparecchiature da rottamare, contattare il proprio comune di residenza, il servizio di smaltimento dei rifiuti locale o il negozio presso il quale è stato acquistato il prodotto.

Português

Descarte de equipamentos por usuários em residências da União Européia.
Este símbolo no produto ou na embalagem indica que o produto não pode ser descartado junto com o lixo doméstico. No entanto, é sua responsabilidade levar os equipamentos a serem descartados a um ponto de coleta designado para a reciclagem de equipamentos eletro-eletrônicos. A coleta separada e a reciclagem dos equipamentos no momento do descarte ajudam na conservação dos recursos naturais e garantem que os equipamentos serão reciclados de forma a proteger a saúde das pessoas e o meio ambiente. Para obter mais informações sobre onde descartar equipamentos para reciclagem, entre em contato com o escritório local de sua cidade, o serviço de limpeza pública de seu bairro ou a loja em que adquiriu o produto.

Español

Eliminación de residuos de aparatos eléctricos y electrónicos por parte de usuarios domésticos en la Unión Europea.
Este símbolo en el producto o en el embalaje indica que no se puede desechar el producto junto con los residuos domésticos. Por el contrario, si debe eliminar este tipo de residuo, es responsabilidad del usuario entregarlo en un punto de recolección designado de reciclado de aparatos electrónicos y eléctricos. El reciclaje y la recolección por separado de estos residuos en el momento de la eliminación ayudará a preservar recursos naturales y a garantizar que el reciclaje proteja la salud y el medio ambiente. Si desea información adicional sobre los lugares donde puede dejar estos residuos para su reciclado, póngase en contacto con las autoridades locales de su ciudad, con el servicio de gestión de residuos domésticos o con la tienda donde adquirió el producto.

Nederlands

Afvoer van afgedankte apparatuur door gebruikers in particuliere huishoudens in de Europese Unie.
Dit symbool op het product of de verpakking geeft aan dat dit product niet mag worden afgevoerd met het huishoudelijk afval. Het is uw verantwoordelijkheid uw afgedankte apparatuur af te leveren op een aangewezen inzamelpunt voor de verwerking van afgedankte elektrische en elektronische apparatuur. De gescheiden inzameling en verwerking van uw afgedankte apparatuur draagt bij tot het sparen van natuurlijke bronnen en tot het hergebruik van materiaal op een wijze die de volksgezondheid en het milieu beschermt. Voor meer informatie over waar u uw afgedankte apparatuur kunt inleveren voor recycling kunt u contact opnemen met het gemeentehuis in uw woonplaats, de reinigingsdienst of de winkel waar u het product hebt aangeschaft.

English

Warranty

Cooler Master guarantees this device to be free of defects in material and workmanship, and provide a 5-year hardware limited warranty for the power supply on the date of purchase. Please register on our official website for your international limited warranty (http://www.coolermaster.com/member).
This product is designed for computer usage only. Using this device in any other application will void the warranty. If you are not familiar with computer hardware installation, please ask for professional assistance.
The warranty applies to the Power Supply Unit, and does not include accessories.
The warranty applies to damages caused through normal use and is void if it is determined that the device was damaged because of abuse, alteration, misuse, negligence, incorrect voltage supply, air/water pollution, accidents and natural disasters.
During the warranty period, please return your product to the dealer or retailer from whom you purchased for a replacement/repair. Please contact our customer support team for any technical related questions.
http://www.coolermaster.com/warrantyinfo
Limited warranty period:
http://www.coolermaster.com/warrantyperiod
Technical support:
http://www.coolermaster.com/techsupport

Troubleshooting

If your system does not turn on after installing the power supply, follow the troubleshooting guide as listed below:
1. Please make sure the main power is connected on correctly.
2. Please make sure the P1 and P2 connectors are connected correctly to the motherboard.
3. If the power supply does not work properly, please contact our service center immediately.

العربية

الضمان

تضمن شركة كولر ماستر خلو هذا المنتج من العيوب سواء في المواد المستخدمة أو في طريقة التصنيع، كما توفر ضمان محدود لوحدة الإمداد بالطاقة بالأجهزة وذلك لمدة خمس سنوات من تاريخ الشراء. للاستفادة من خدمة الضمان الدولي المحدود، يرجى التسجيل على موقعنا الرسمي (http://www.coolermaster.com/member).
لا يستخدم هذا المنتج إلا مع أجهزة الكمبيوتر، إذ قد يؤدي استخدامه مع أية تطبيقات أخرى إلى إلغاء الضمان. إن لم تكن معتادًا على تركيب أجهزة الكمبيوتر؛ يرجى طلب المساعدة الفنية.

Български

Гаранция

Cooler Master гарантира, че това устройство ...

Čeština

Záruka

Společnost Cooler Master se zaručuje, že toto zařízení je bez závad na materiálu a provedení a poskytuje 5 letou omezenou záruku na hardware pro zdroj napájení od datumu zakoupení. Zaregistrujte vaši mezinárodní omezenou záruku na našem oficiálním webu (http://www.coolermaster.com/member).
Tento výrobek je určen pouze k použití s počítačem. Používáním tohoto zařízení k jakýmkoli jiným zařízením dojde k propadnutí záruky. Nemáte-li zkušenosti s instalací počítačového hardwaru, požádejte o odbornou pomoc.
Tato záruka se vztahuje pro zdroj napájení a nezahrnuje příslušenství.

Deutsch

Garantie

Vielen Dank dass Sie sich fuer ein Qualitaetsprodukt von Cooler Master entschieden haben. Cooler Master gewährleistet, dass dieses Netzteil keinerlei Material- und Herstellungsfehler aufweist. Dieses Netzteil genießt eine 5-jährige, eingeschränkte Garantie ab Kaufdatum. Bitte registrieren Sie sich auf unserer offiziellen Internetseite (http://www.coolermaster.com/member), damit Sie die internationale, eingeschränkte Garantie in Anspruch nehmen können.
Dieses Produkt wurde zum ausschließlichen Einsatz mit Computern entwickelt. ...

简体中文

保修信息

Cooler Master保证本电源供应器装置之材质及做工无瑕疵，并提供此电源供应器自购买日算起5年的硬件有限保修服务. 烦请上Cooler Master官方网站注册您的产品
(http://www.coolermaster.com/member)
本产品专为计算机使用设计，一旦将本设备用于其他用途，则保修无效. 若您不熟悉硬件安装程序，烦请寻求专业的协助. 保修服务仅适用于正常使用下之故障情形.
本公司所提供之保修仅限于电源供应器本体，不包含配件.
若电源供应器毁损之原因为人为滥用、改造、误用、疏忽、电压供应错误、空气及水污染意外和自然灾害，则保修无效.

Company information

Taiwan, Asia Pacific - Cooler Master Co., Ltd.
9F, No. 786, Zhongzheng Rd, Zhonghe Dist.,
New Taipei City 23586, Taiwan (R.O.C.)
Tel: +886-2-3234-0050

CHINA-Cooler Master China
5F., Building B, No. 18, HeChang E. 4th Rd., ZhongKai,
Hui-Zhou City, Guang Dong Province, China
Tel: +86-752-260-8898

Europe - Cooler Master Europe B.V.
Hudsonweg 3 Trade Port West 9272, 5928 LW Venlo, The Netherlands
Tel: +31-77-396-8226

North America - Cooler Master USA
4820 Schaefer Ave. Chino CA, 91710, USA

Cooler Master USA lnc
4820 Schaefer Ave.
Chino , CA 91710
TEL: +1-909-673-9880
FAX: +1-909-673-9882

Live Help
http://www.coolermaster.com/livehelp

Tech support/Sevice:
http://www.coolermaster.com/techsupport

Cooler Master Products: Limited Warranty

This document describes the warranty terms for all Cooler Master product sold in Australia

For Australia only:
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. (Cooler Master Co., Ltd, 9F., No.786, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan R.O.C.)
Telephone: +886-2-3234-0050 (standard international call charges apply.)

Who the Warranty Protects:
This Warranty is valid to the original purchaser only.

What the warranty protects:
This warranty is valid only for the Cooler Master Products distributed by authorized dealer(s) in Australia. Please contact Cooler Master for warranty information and services:
- Cooler Master Pty Ltd.,: 9F., No.786, Zhongzheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan R.O.C.
- E-mail Support: eservice@coolermaster.com.tw
- Online live chat support: www.coolermaster.com/livehelp
- Customer service: +886-2-3234-0050 (standard international call charges apply.)

What the warranty does not cover
1. Any product, on which the serial number has been defaced, modified or removed.
2. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
3. Repair or attempted repair by anyone not authorized by Cooler Master.
4. Damage to or loss of any programs, data or removable storage media.
5. Software or data loss occurring during repair or replacement.
6. Any damage of the product due to shipment.
7. Removal or installation of the product.
8. External causes, such as electric power fluctuations or failure.
9. Use of supplies or parts not meeting Cooler Master's specifications.
10. Normal wear and tear.
11. Failure of owners to perform periodic product maintenance as stated in User Guide, Such as cleaning of user-cleanable projector filters.
12. Any other cause which does not relate to a product defect.
13. Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).

Limitation of implied warranties:
THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN INCLUDING THE IMPLIED WARRANTY OF MERCHANT-ABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Exclusion of damages
COOLER MASTER'S LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT.COOLER MASTER SHALL NOT BE LIABLE FOR:
- DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECT IN THE PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, LOSS OF PROFITS, LOSS OF BUSINESS OPPORTUNITY, LOSS OF GOODWILL, INTERFERENCE WITH BUSINESS RELATIONSHIPSM OR OTHER COMMERCIAL LOSS, EVEN IF ADVISED OF THEIR POSSIBILITY OF SUCH DAMAGES.
- ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE
- ANY CLAIM AGAINST THE CUSTOMER BY ANY OTHER PARTY

Warranty Information:
If the goods is found with reasonable defect within the period of (refer to Table A.,) starting on the first day of purchase (with proof of invoice), this is what you must do, to claim the warranty from the above address.

Procedures:
1. Consumers should return to the shop where he/she has bought the goods, After confirming with the shop with a valid invoice, they may approach the distributor for RMA claim.
2. After confirmed by the distributor that the goods was damaged due to natural causes, replace ment and repair will be done by distributor (including brand new or refurbished goods)
3. All faulty goods must return to the distributor, expenses for returning the faulty goods will be covered by the consumer, and distributor will cover the cost involved in the transporting of parts or repaired goods to the consumer.

Regarding all the expenses incurred in making the claim, and this is how you would claim:
1. Within the valid warranty date, starting from the first day of issuing invoice, Retail shops will assist in confirmation with distributor for the consumer for the following.
A. If the damage was caused by the consumer, then the consumer should cover all expenses in fixing the product, if the product still can't be fixed, we would suggest consumer in buying a brand new product.
B. Product defect caused under natural use, expenses will be covered by the distributor.
2. Faulty products with expired warranty dates, we would suggest consumer to purchase a brand new products, without undergoing for repairs.

Cooler Master Power Supply products warranty

Product Name	Warranty Term
V Series	5 years
GM Series	5 years
GX II Series	5 years
GX Lite	3 years
Silent Pro Series	5 years
eXtreme Power II	3 years
Elite Power	1 year